

IN THE CLAIMS:

Please re-write the claims to read as follows:

1 1. (Previously presented) A method for generating a backup of a database, the method com-
2 prising the steps of:

3 preparing the database for backup by rendering the database coherent so that the da-
4 tabase can be restored without loss of data; and

5 creating a snapshot of a file system, the file system comprising files including the da-
6 tabase and associated log files while the file system is active and available for access by us-
7 ers.

1 2. (Previously presented) The method of claim 1 further comprising the steps of:

2 generating snapinfo files in the file system including database log files and data asso-
3 ciated with the backup, the data associated with the backup used for database restore proce-
4 dures.

1 3. (Original) The method of claim 2 further comprising the steps of:

2 verifying the database for coherency; and

3 updating the snapinfo files with results of the verification of the database.

1 4. (Original) A method for generating a point-in-time restoration of a set of database files
2 and a set of associated log files to an active file system, the method comprising the steps of:
3 selecting, by a user, a backup to restore therefrom, the backup comprising a snapshot
4 of a file system including the set of database files and copies of the associated log files;
5 verifying the selected backup for coherency;
6 copying, in response to the backup being coherent, the snapshot of the set of database
7 files to the active file system; and
8 copying, in response to the backup being coherent, the copies of the associated log
9 files to the active file system.

1 5. (Previously presented) The method of claim 4 wherein the step of copying the snapshot to
2 the active file system further comprises the step of:
3 copying contents of a root inode associated with the snapshot to a root inode associ-
4 ated with the active file system.

1 6. (Original) The method of claim 4 wherein the backup is selected from a set of backups
2 associated with the active file system.

1 7. (Previously presented) The method of claim 4 wherein the method further comprises the
2 step of:
3 renaming the copies of the associated log files to a set naming convention.

1 8. (Original) The method of claim 4 wherein the database files and log files are associated
2 with electronic mail messages.

1 9. (Original) The method of claim 4 wherein the set of associated log files further comprises
2 data to be incorporated into the set of database files.

1 10. (Original) A method for generating a point-in-time restoration of a set of database files
2 and a set of associated log files to an active file system, the method comprising the steps of:
3 selecting, a backup to restore therefrom, the backup comprising a snapshot of a file
4 system including the set of database files, copies of the associated log files and copies of log
5 files associated with a set of snapshots created later in time than the selected snapshot;
6 verifying the selected backup;
7 copying, in response to the backup being successfully verified, the snapshot of the set
8 of database files to the active file system;
9 copying, in response to the backup being successfully verified, the copies of the asso-
10 ciated log files to the active file system; and
11 copying the copies of the log files associated with the set of snapshots created later in
12 time than the selected snapshot to the active file system.

1 11. (Previously presented) The method of claim 10 wherein the step of selecting the backup
2 to restore from further comprises the step of:

3 a user selecting, from a set of backups to restore from.

1 12. (Previously presented) The method of claim 10 wherein the step of copying the snapshot
2 to the active file system further comprises the step of:

3 copying contents of a root inode associated with the snapshot to a root inode associ-
4 ated with the active file system.

1 13. (Previously presented) The method of claim 10 wherein the method further comprises
2 the step of:

3 renaming the copies of the associated log files to a set naming convention.

1 14. (Original) A method for generating a point-in-time restoration from a set of backups,
2 each of the set of backups comprising a snapshot and copies of a set of log files associated
3 with the snapshot, the method comprising the steps of:

4 selecting one of the set of backups to generate the point-in-time restoration therefrom;

5 copying the database files from the snapshot to an active file system; and

6 copying the copies of the set of log files to the active file system.

1 15. (Original) The method of claim 14 wherein the method further comprises the step of:
2 renaming the copies of the associated log files to a set naming convention.

1 16. (Previously presented) The method of claim 14 wherein the step of copying the snapshot
2 to the active file system further comprises the step of:

3 copying contents of a root inode associated with the snapshot to a root inode associ-
4 ated with the active file system.

1 17. (Original) A method for generating a backup of a set of database files associated with
2 the database program and a set of associated log files, the method comprising the steps of:

3 performing a snapshot operation on the set of database files; and

4 copying the set of log files to a directory associated with the backup.

1 18. (Previously presented) The method of claim 17 wherein the method further comprises
2 the step of:

3 validating a snapshot generated by the snapshot operation.

1 19. (Original) The method of claim 18 wherein the method further comprises the step of :

2 marking, in response to a successful validation of the snapshot, the snapshot as a
3 backup snapshot.

1 20. (Original) A computer-readable medium, including instructions executing on a com-

2 puter, for generating a point-in-time restoration of a set of database files and a set of associ-

3 ated log files to an active file system, the program instructions including instructions for per-

4 forming the steps of:

5 selecting, by a user, a backup to restore therefrom, the backup comprising a snapshot
6 of a file system including the set of database file and copies of the associated log files;
7 verifying the selected backup;
8 copying, in response to the backup being successfully verified, the snapshot of the set
9 of database files to the active file system; and
10 copying, in response to the backup being successfully verified, the copies of the asso-
11 ciated log files to the active file system.

1 21. (Original) A computer-readable medium, including instructions executing on a com-
2 puter, for generating a point-in-time restoration of a set of database files and a set of associ-
3 ated log files to an active file system, the program instructions including instructions for per-
4 forming the steps of:

5 selecting, a backup to restore therefrom, the backup comprising a snapshot of a file
6 system including the set of database files, copies of the associated log files and copies of log
7 files associated with a set of snapshots created later in time than the selected snapshot;
8 verifying the selected backup;
9 copying, in response to the backup being successfully verified, the snapshot of the set of da-
10 tabase files to the active file system;
11 copying, in response to the backup being successfully verified, the copies of the asso-
12 ciated log files to the active file system; and
13 copying the copies of the log files associated with the set of snapshots created later in
14 time than the selected snapshot to the active file system.

1 22. (Previously presented) A method for generating a backup of a file system, the
2 method comprising the steps of:
3 rendering the file system coherent in preparation for generating the backup, to
4 produce a coherent file system; and
5 creating a snapshot of the coherent file system, the snapshot created as a copy of a
6 set of pointers to data, the data stored in the coherent file system.

1 23. (Previously presented) The method as in claim 22, further comprising:
2 incorporating a log file into the file system to render the file system coherent.

1 24. (Previously presented) The method as in claim 22, further comprising:
2 maintaining the file system available for access by users while generating the
3 backup.

1 25. (Previously presented) A file system, comprising:
2 means for rendering the file system coherent in preparation for generating the
3 backup, to produce a coherent file system; and
4 means for creating a snapshot of the coherent file system, the snapshot created as
5 a copy of a set of pointers to data, the data stored in the coherent file system.

1 26. (Previously presented) The file system of claim 25, further comprising:
2 means for incorporating a log file into the file system to render the file system co-
3 herent.

1 27. (Previously presented) The file system of claim 25, further comprising:
2 means for maintaining the file system available for access by users while generat-
3 ing the backup.

1 28. (Previously presented) A file system, comprising:
2 a processor to render the file system coherent in preparation for generating the
3 backup, to produce a coherent file system; and
4 a snapshot manager to create a snapshot of the coherent file system, the snapshot
5 created as a copy of a set of pointers to data, the data stored in the coherent file system.

1 29. (Previously presented) The file system of claim 25, further comprising:
2 the processor to incorporate a log file into the file system to render the file system
3 coherent.

1 30. (Previously presented) The file system of claim 25, further comprising:
2 the processor and an operating system to maintain the file system available for
3 access by users while generating the backup.

- 1 31. (Previously presented) A computer readable media, comprising:
- 2 said computer readable media containing instructions for execution on a processor
- 3 for the practice of a method for generating a backup of a file system, the method having
- 4 the steps of:
- 5 rendering the file system coherent in preparation for generating the backup, to
- 6 produce a coherent file system; and
- 7 creating a snapshot of the coherent file system, the snapshot created as a copy of a
- 8 set of pointers to data, the data stored in the coherent file system.
-
- 1 32. (Previously presented) Electromagnetic signals propagating on a computer network,
- 2 comprising:
- 3 said electromagnetic signals carrying instructions for execution on a processor for
- 4 the practice of a method for generating a backup of a file system, the method having the
- 5 steps of:
- 6 rendering the file system coherent in preparation for generating the backup, to
- 7 produce a coherent file system; and
- 8 creating a snapshot of the coherent file system, the snapshot created as a copy of a
- 9 set of pointers to data, the data stored in the coherent file system.